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(54) Title: **Zn²⁺-CHELATING MOTIF-TETHERED SHORT -CHAIN FATTY ACIDS AS A NOVEL CLASS OF HISTONE DEACETYLASE INHIBITORS**

| Valproic acid | Linker | Zn ²⁺ -chelating group | Derivatives |
|---------------|--------|-----------------------------------|-------------|
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(57) Abstract: Zn²⁺-chelating motif-tethered fatty acids as histone deacetylase (HDAC) inhibitors. Compounds performed well in *in vitro* and *in vivo* tests.



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